

Title (en)

Fixed-point crucible and fixed-point temperature generating apparatus and temperature calibration method using the crucible

Title (de)

Fixpunktiegel und Gerät zum Erzeugen einer Fixpunkt-Temperatur, und Temperaturkalibrierungsmethode mit diesem Tiegel

Title (fr)

Creuset à point fixe et appareil de génération de température, et méthode de calibration d'une température à l'aide du creuset

Publication

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Application

**EP 99309974 A 19991210**

Priority

JP 37518398 A 19981211

Abstract (en)

A fixed-point crucible 1 comprises a carbon crucible with a fixed-point material of high melting point enclosed in the wall. The fixed-point material is a carbon-metal eutectic. The crucible 1 is disposed in a temperature-variable furnace 6, the temperature of the crucible 1 is increased and decreased by the temperature-variable furnace 6, the temperature of the cavity in the crucible 1 is measured with a thermometer 9 and the thermometer 9 is calibrated from the measured temperature variations. This enables fixed points at temperatures exceeding the melting point of copper to be achieved, thereby allowing highly accurately calibration of a thermometer used in high temperatures such as radiation thermometer, a thermocouple, and the like. <IMAGE>

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**G01K 15/00**

IPC 8 full level

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CPC (source: EP US)

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EP1236982A1; CN104390729A; DE10110131A1; GB2452836B; GB2452836A; GB2376526A; GB2376526B; EP1127555A1; CN109632143A; CN116930056A; US6939035B2; WO03089676A3; US6641299B2; US7655160B2; US9790574B2; US8267575B2; US6921497B2; US7238297B2; US7252793B2; US7704403B2; DE102009038343A1; US7491348B2

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